



IFW

PATENT

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July 29, 2004  
Date

Carolyn L. Ross  
Carolyn L. Ross

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

|           |  |                      |           |
|-----------|--|----------------------|-----------|
| Appl. No. | : 10/730,813   | Confirmation No.     | : 4210    |
| Applicant | : Nathan R. Brown  |                      |           |
| Filed     | : December 8, 2003   | Attorney Docket No.: | 500200.06 |
| Art Unit  | : 3723   | Customer No.         | : 27,076  |
| Examiner  | : Alvin J. Grant   |                      |           |
| Title     | : METHOD AND APPARATUS FOR CHEMICAL-MECHANICAL PLANARIZATION OF MICROELECTRONIC SUBSTRATES WITH A CARRIER AND MEMBRANE |                      |           |

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. §§ 1.56 and 1.97 through 1.98, applicant wishes to make known to the Patent and Trademark Office the references set forth on the attached form PTO-1449. Copies of the cited foreign patent and non-patent literature references, as required under 37 C.F.R. § 1.98(a)(2), are enclosed. Copies of the cited U.S. patents and U.S. patent application publications will not be submitted herewith in accordance with the waiver by the Office of the requirement under 37 C.F.R. § 1.98(a)(2)(i) for U.S. national patent applications filed after June 30, 2003. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicant's duty to disclose all information he is aware of which is believed relevant to the examination of the above-identified application, applicant believes that his invention is patentable.

I hereby certify that no item set forth on the attached form PTO-1449 was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge, after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

A fee of \$180 is submitted in accordance with 37 C.F.R. § 1.97(c). The Commissioner is authorized to charge any other fees which may be required, or credit any overpayment to Deposit Account No. 50-1266. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

DORSEY & WHITNEY LLP



Marcus Simon  
Registration No. 50,258

MS:clr

Enclosures:

Postcard  
Check  
Fee Transmittal (+ copy)  
Copy of Information Disclosure Statement  
Form PTO-1449

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FORM PTO-1449  
(REV.7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

500200.06

APPLICATION NO.

10/730,813

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT(S)

Nathan R. Brown

FILING DATE

December 8, 2003

GROUP ART UNIT

3723

## U.S. PATENT DOCUMENTS

| *EXAMINER<br>INITIAL | DOCUMENT NUMBER | DATE     | NAME      | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|----------------------|-----------------|----------|-----------|-------|----------|-------------------------------|
| AA                   | 6,296,559       | 10/02/01 | Kinnebrew | 452   | 128      |                               |
| AB                   |                 |          |           |       |          |                               |
| AC                   |                 |          |           |       |          |                               |
| AD                   |                 |          |           |       |          |                               |
| AE                   |                 |          |           |       |          |                               |
| AF                   |                 |          |           |       |          |                               |
| AG                   |                 |          |           |       |          |                               |
| AH                   |                 |          |           |       |          |                               |
| AI                   |                 |          |           |       |          |                               |
| AJ                   |                 |          |           |       |          |                               |

## FOREIGN PATENT DOCUMENTS

|  |    | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION |    |
|--|----|-----------------|------|---------|-------|----------|-------------|----|
|  |    |                 |      |         |       |          | YES         | NO |
|  | AK |                 |      |         |       |          |             |    |
|  | AL |                 |      |         |       |          |             |    |
|  | AM |                 |      |         |       |          |             |    |
|  | AN |                 |      |         |       |          |             |    |
|  | AO |                 |      |         |       |          |             |    |

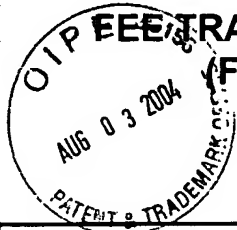
## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|    |  |
|----|--|
| AP |  |
| AQ |  |
| AR |  |

EXAMINER

DATE CONSIDERED

\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).



| Complete if Known    |                  |
|----------------------|------------------|
| Application No.      | 10/730,813       |
| Filing Date          | December 8, 2003 |
| First Named Inventor | Nathan R. Brown  |
| Group Art Unit       | 3723             |
| Examiner             | Alvin J. Grant   |
| Atty. Docket Number  | 500200.06        |

| METHOD OF PAYMENT (Check One)   | FEE CALCULATION (Continued)  |               |          |  |               |                 |          |          |          |          |          |      |     |      |    |                                     |    |      |    |      |    |  |    |      |     |      |     |                           |    |      |       |      |       |  |    |      |     |      |     |  |    |      |       |      |       |   |    |      |     |      |    |  |    |      |     |      |     |  |    |      |     |      |     |  |    |      |       |      |     |  |    |      |       |      |       |  |    |      |     |      |     |                  |    |      |     |      |     |  |    |      |     |      |     |                          |    |      |     |      |    |                         |    |      |     |      |    |                                  |    |      |       |      |     |                                    |    |      |       |      |     |                           |    |      |     |      |     |                  |    |      |     |      |     |                 |    |      |     |      |     |                               |    |      |    |      |    |                                     |    |      |     |      |     |                   |        |      |    |      |    |  |    |      |     |      |     |   |    |                     |  |  |  |  |    |                     |  |  |  |  |               |
|---|--|---------------|----------|--|---------------|-----------------|----------|----------|----------|----------|----------|------|-----|------|----|-------------------------------------|----|------|----|------|----|--|----|------|-----|------|-----|---------------------------|----|------|-------|------|-------|--|----|------|-----|------|-----|--|----|------|-------|------|-------|---|----|------|-----|------|----|--|----|------|-----|------|-----|--|----|------|-----|------|-----|--|----|------|-------|------|-----|--|----|------|-------|------|-------|--|----|------|-----|------|-----|------------------|----|------|-----|------|-----|--|----|------|-----|------|-----|--------------------------|----|------|-----|------|----|-------------------------|----|------|-----|------|----|----------------------------------|----|------|-------|------|-----|------------------------------------|----|------|-------|------|-----|---------------------------|----|------|-----|------|-----|------------------|----|------|-----|------|-----|-----------------|----|------|-----|------|-----|-------------------------------|----|------|----|------|----|-------------------------------------|----|------|-----|------|-----|-------------------|--------|------|----|------|----|--|----|------|-----|------|-----|---|----|---------------------|--|--|--|--|----|---------------------|--|--|--|--|---------------|
| <p>1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fee required under 37 C.F.R. §§ 1.16 and 1.17 and 1.136(a)(3) and credit any over payments to Deposit Account No.: 50-1266; Deposit Account Name: <u>DORSEY &amp; WHITNEY LLP</u></p> <p>2. <input checked="" type="checkbox"/> Check Enclosed</p> | <p><b>3. ADDITIONAL FEES</b></p> <table border="1" style="width:100%; border-collapse: collapse;"><thead><tr><th colspan="2">Large Entity</th><th colspan="2">Small Entity</th><th rowspan="2">Fee Description</th><th rowspan="2">Fee paid</th></tr><tr><th>Fee Code</th><th>Fee (\$)</th><th>Fee Code</th><th>Fee (\$)</th></tr></thead><tbody><tr><td>1051</td><td>130</td><td>2051</td><td>65</td><td>Surcharge - Late filing fee or oath</td><td>\$</td></tr><tr><td>1052</td><td>50</td><td>2052</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td>\$</td></tr><tr><td>1053</td><td>130</td><td>1053</td><td>130</td><td>Non-English specification</td><td>\$</td></tr><tr><td>1812</td><td>2,520</td><td>1812</td><td>2,520</td><td>For Filing a Request for <i>ex parte</i> Reexamination</td><td>\$</td></tr><tr><td>1804</td><td>920</td><td>1804</td><td>920</td><td>Requesting publication of SIR prior to Examiner action</td><td>\$</td></tr><tr><td>1805</td><td>1,840</td><td>1805</td><td>1,840</td><td>Requesting publication of SIR after Examiner action</td><td>\$</td></tr><tr><td>1251</td><td>110</td><td>2251</td><td>55</td><td>Extension for reply within first month</td><td>\$</td></tr><tr><td>1252</td><td>420</td><td>2252</td><td>210</td><td>Extension for reply within 2<sup>nd</sup> month</td><td>\$</td></tr><tr><td>1253</td><td>950</td><td>2253</td><td>475</td><td>Extension for reply within 3<sup>rd</sup> month</td><td>\$</td></tr><tr><td>1254</td><td>1,480</td><td>2254</td><td>740</td><td>Extension for reply within 4<sup>th</sup> month</td><td>\$</td></tr><tr><td>1255</td><td>2,010</td><td>2255</td><td>1,005</td><td>Extension for reply within 5<sup>th</sup> month</td><td>\$</td></tr><tr><td>1401</td><td>330</td><td>2401</td><td>165</td><td>Notice of Appeal</td><td>\$</td></tr><tr><td>1402</td><td>330</td><td>2402</td><td>165</td><td>Filing a brief in support of an appeal</td><td>\$</td></tr><tr><td>1403</td><td>290</td><td>2403</td><td>145</td><td>Request for oral hearing</td><td>\$</td></tr><tr><td>1814</td><td>110</td><td>2814</td><td>55</td><td>Terminal Disclaimer Fee</td><td>\$</td></tr><tr><td>1452</td><td>110</td><td>2452</td><td>55</td><td>Petition to revive – unavoidable</td><td>\$</td></tr><tr><td>1453</td><td>1,330</td><td>2453</td><td>665</td><td>Petition to revive – unintentional</td><td>\$</td></tr><tr><td>1501</td><td>1,330</td><td>2501</td><td>665</td><td>Utility/Reissue issue fee</td><td>\$</td></tr><tr><td>1502</td><td>480</td><td>2502</td><td>240</td><td>Design issue fee</td><td>\$</td></tr><tr><td>1503</td><td>640</td><td>2503</td><td>320</td><td>Plant issue fee</td><td>\$</td></tr><tr><td>1460</td><td>130</td><td>1460</td><td>130</td><td>Petitions to the Commissioner</td><td>\$</td></tr><tr><td>1807</td><td>50</td><td>1807</td><td>50</td><td>Processing fee under 37 CFR 1.17(q)</td><td>\$</td></tr><tr><td>1806</td><td>180</td><td>1806</td><td>180</td><td>Submission of IDS</td><td>\$ 180</td></tr><tr><td>8021</td><td>40</td><td>8021</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td>\$</td></tr><tr><td>1801</td><td>770</td><td>2801</td><td>385</td><td>Request for Continued Examination (RCE)</td><td>\$</td></tr><tr><td colspan="5">Other fee (specify)</td><td>\$</td></tr><tr><td colspan="5" style="text-align: right;"><b>Subtotal (3)</b></td><td><b>\$ 180</b></td></tr></tbody></table> | Large Entity  |          | Small Entity   |               | Fee Description | Fee paid | Fee Code | Fee (\$) | Fee Code | Fee (\$) | 1051 | 130 | 2051 | 65 | Surcharge - Late filing fee or oath | \$ | 1052 | 50 | 2052 | 25 | Surcharge - late provisional filing fee or cover sheet | \$ | 1053 | 130 | 1053 | 130 | Non-English specification | \$ | 1812 | 2,520 | 1812 | 2,520 | For Filing a Request for <i>ex parte</i> Reexamination | \$ | 1804 | 920 | 1804 | 920 | Requesting publication of SIR prior to Examiner action | \$ | 1805 | 1,840 | 1805 | 1,840 | Requesting publication of SIR after Examiner action | \$ | 1251 | 110 | 2251 | 55 | Extension for reply within first month | \$ | 1252 | 420 | 2252 | 210 | Extension for reply within 2 <sup>nd</sup> month | \$ | 1253 | 950 | 2253 | 475 | Extension for reply within 3 <sup>rd</sup> month | \$ | 1254 | 1,480 | 2254 | 740 | Extension for reply within 4 <sup>th</sup> month | \$ | 1255 | 2,010 | 2255 | 1,005 | Extension for reply within 5 <sup>th</sup> month | \$ | 1401 | 330 | 2401 | 165 | Notice of Appeal | \$ | 1402 | 330 | 2402 | 165 | Filing a brief in support of an appeal | \$ | 1403 | 290 | 2403 | 145 | Request for oral hearing | \$ | 1814 | 110 | 2814 | 55 | Terminal Disclaimer Fee | \$ | 1452 | 110 | 2452 | 55 | Petition to revive – unavoidable | \$ | 1453 | 1,330 | 2453 | 665 | Petition to revive – unintentional | \$ | 1501 | 1,330 | 2501 | 665 | Utility/Reissue issue fee | \$ | 1502 | 480 | 2502 | 240 | Design issue fee | \$ | 1503 | 640 | 2503 | 320 | Plant issue fee | \$ | 1460 | 130 | 1460 | 130 | Petitions to the Commissioner | \$ | 1807 | 50 | 1807 | 50 | Processing fee under 37 CFR 1.17(q) | \$ | 1806 | 180 | 1806 | 180 | Submission of IDS | \$ 180 | 8021 | 40 | 8021 | 40 | Recording each patent assignment per property (times number of properties) | \$ | 1801 | 770 | 2801 | 385 | Request for Continued Examination (RCE) | \$ | Other fee (specify) |  |  |  |  | \$ | <b>Subtotal (3)</b> |  |  |  |  | <b>\$ 180</b> |
| Large Entity  |  | Small Entity  |          | Fee Description  | Fee paid      |                 |          |          |          |          |          |      |     |      |    |                                     |    |      |    |      |    |  |    |      |     |      |     |                           |    |      |       |      |       |  |    |      |     |      |     |  |    |      |       |      |       |   |    |      |     |      |    |  |    |      |     |      |     |  |    |      |     |      |     |  |    |      |       |      |     |  |    |      |       |      |       |  |    |      |     |      |     |                  |    |      |     |      |     |  |    |      |     |      |     |                          |    |      |     |      |    |                         |    |      |     |      |    |                                  |    |      |       |      |     |                                    |    |      |       |      |     |                           |    |      |     |      |     |                  |    |      |     |      |     |                 |    |      |     |      |     |                               |    |      |    |      |    |                                     |    |      |     |      |     |                   |        |      |    |      |    |  |    |      |     |      |     |   |    |                     |  |  |  |  |    |                     |  |  |  |  |               |
| Fee Code  | Fee (\$)   | Fee Code      | Fee (\$) |  |               |                 |          |          |          |          |          |      |     |      |    |                                     |    |      |    |      |    |  |    |      |     |      |     |                           |    |      |       |      |       |  |    |      |     |      |     |  |    |      |       |      |       |   |    |      |     |      |    |  |    |      |     |      |     |  |    |      |     |      |     |  |    |      |       |      |     |  |    |      |       |      |       |  |    |      |     |      |     |                  |    |      |     |      |     |  |    |      |     |      |     |                          |    |      |     |      |    |                         |    |      |     |      |    |                                  |    |      |       |      |     |                                    |    |      |       |      |     |                           |    |      |     |      |     |                  |    |      |     |      |     |                 |    |      |     |      |     |                               |    |      |    |      |    |                                     |    |      |     |      |     |                   |        |      |    |      |    |  |    |      |     |      |     |   |    |                     |  |  |  |  |    |                     |  |  |  |  |               |
| 1051  | 130  | 2051          | 65       | Surcharge - Late filing fee or oath  | \$            |                 |          |          |          |          |          |      |     |      |    |                                     |    |      |    |      |    |  |    |      |     |      |     |                           |    |      |       |      |       |  |    |      |     |      |     |  |    |      |       |      |       |   |    |      |     |      |    |  |    |      |     |      |     |  |    |      |     |      |     |  |    |      |       |      |     |  |    |      |       |      |       |  |    |      |     |      |     |                  |    |      |     |      |     |  |    |      |     |      |     |                          |    |      |     |      |    |                         |    |      |     |      |    |                                  |    |      |       |      |     |                                    |    |      |       |      |     |                           |    |      |     |      |     |                  |    |      |     |      |     |                 |    |      |     |      |     |                               |    |      |    |      |    |                                     |    |      |     |      |     |                   |        |      |    |      |    |  |    |      |     |      |     |   |    |                     |  |  |  |  |    |                     |  |  |  |  |               |
| 1052  | 50   | 2052          | 25       | Surcharge - late provisional filing fee or cover sheet                     | \$            |                 |          |          |          |          |          |      |     |      |    |                                     |    |      |    |      |    |  |    |      |     |      |     |                           |    |      |       |      |       |  |    |      |     |      |     |  |    |      |       |      |       |   |    |      |     |      |    |  |    |      |     |      |     |  |    |      |     |      |     |  |    |      |       |      |     |  |    |      |       |      |       |  |    |      |     |      |     |                  |    |      |     |      |     |  |    |      |     |      |     |                          |    |      |     |      |    |                         |    |      |     |      |    |                                  |    |      |       |      |     |                                    |    |      |       |      |     |                           |    |      |     |      |     |                  |    |      |     |      |     |                 |    |      |     |      |     |                               |    |      |    |      |    |                                     |    |      |     |      |     |                   |        |      |    |      |    |  |    |      |     |      |     |   |    |                     |  |  |  |  |    |                     |  |  |  |  |               |
| 1053  | 130  | 1053          | 130      | Non-English specification  | \$            |                 |          |          |          |          |          |      |     |      |    |                                     |    |      |    |      |    |  |    |      |     |      |     |                           |    |      |       |      |       |  |    |      |     |      |     |  |    |      |       |      |       |   |    |      |     |      |    |  |    |      |     |      |     |  |    |      |     |      |     |  |    |      |       |      |     |  |    |      |       |      |       |  |    |      |     |      |     |                  |    |      |     |      |     |  |    |      |     |      |     |                          |    |      |     |      |    |                         |    |      |     |      |    |                                  |    |      |       |      |     |                                    |    |      |       |      |     |                           |    |      |     |      |     |                  |    |      |     |      |     |                 |    |      |     |      |     |                               |    |      |    |      |    |                                     |    |      |     |      |     |                   |        |      |    |      |    |  |    |      |     |      |     |   |    |                     |  |  |  |  |    |                     |  |  |  |  |               |
| 1812  | 2,520  | 1812          | 2,520    | For Filing a Request for <i>ex parte</i> Reexamination                     | \$            |                 |          |          |          |          |          |      |     |      |    |                                     |    |      |    |      |    |  |    |      |     |      |     |                           |    |      |       |      |       |  |    |      |     |      |     |  |    |      |       |      |       |   |    |      |     |      |    |  |    |      |     |      |     |  |    |      |     |      |     |  |    |      |       |      |     |  |    |      |       |      |       |  |    |      |     |      |     |                  |    |      |     |      |     |  |    |      |     |      |     |                          |    |      |     |      |    |                         |    |      |     |      |    |                                  |    |      |       |      |     |                                    |    |      |       |      |     |                           |    |      |     |      |     |                  |    |      |     |      |     |                 |    |      |     |      |     |                               |    |      |    |      |    |                                     |    |      |     |      |     |                   |        |      |    |      |    |  |    |      |     |      |     |   |    |                     |  |  |  |  |    |                     |  |  |  |  |               |
| 1804  | 920  | 1804          | 920      | Requesting publication of SIR prior to Examiner action                     | \$            |                 |          |          |          |          |          |      |     |      |    |                                     |    |      |    |      |    |  |    |      |     |      |     |                           |    |      |       |      |       |  |    |      |     |      |     |  |    |      |       |      |       |   |    |      |     |      |    |  |    |      |     |      |     |  |    |      |     |      |     |  |    |      |       |      |     |  |    |      |       |      |       |  |    |      |     |      |     |                  |    |      |     |      |     |  |    |      |     |      |     |                          |    |      |     |      |    |                         |    |      |     |      |    |                                  |    |      |       |      |     |                                    |    |      |       |      |     |                           |    |      |     |      |     |                  |    |      |     |      |     |                 |    |      |     |      |     |                               |    |      |    |      |    |                                     |    |      |     |      |     |                   |        |      |    |      |    |  |    |      |     |      |     |   |    |                     |  |  |  |  |    |                     |  |  |  |  |               |
| 1805  | 1,840  | 1805          | 1,840    | Requesting publication of SIR after Examiner action                        | \$            |                 |          |          |          |          |          |      |     |      |    |                                     |    |      |    |      |    |  |    |      |     |      |     |                           |    |      |       |      |       |  |    |      |     |      |     |  |    |      |       |      |       |   |    |      |     |      |    |  |    |      |     |      |     |  |    |      |     |      |     |  |    |      |       |      |     |  |    |      |       |      |       |  |    |      |     |      |     |                  |    |      |     |      |     |  |    |      |     |      |     |                          |    |      |     |      |    |                         |    |      |     |      |    |                                  |    |      |       |      |     |                                    |    |      |       |      |     |                           |    |      |     |      |     |                  |    |      |     |      |     |                 |    |      |     |      |     |                               |    |      |    |      |    |                                     |    |      |     |      |     |                   |        |      |    |      |    |  |    |      |     |      |     |   |    |                     |  |  |  |  |    |                     |  |  |  |  |               |
| 1251  | 110  | 2251          | 55       | Extension for reply within first month                                     | \$            |                 |          |          |          |          |          |      |     |      |    |                                     |    |      |    |      |    |  |    |      |     |      |     |                           |    |      |       |      |       |  |    |      |     |      |     |  |    |      |       |      |       |   |    |      |     |      |    |  |    |      |     |      |     |  |    |      |     |      |     |  |    |      |       |      |     |  |    |      |       |      |       |  |    |      |     |      |     |                  |    |      |     |      |     |  |    |      |     |      |     |                          |    |      |     |      |    |                         |    |      |     |      |    |                                  |    |      |       |      |     |                                    |    |      |       |      |     |                           |    |      |     |      |     |                  |    |      |     |      |     |                 |    |      |     |      |     |                               |    |      |    |      |    |                                     |    |      |     |      |     |                   |        |      |    |      |    |  |    |      |     |      |     |   |    |                     |  |  |  |  |    |                     |  |  |  |  |               |
| 1252  | 420  | 2252          | 210      | Extension for reply within 2 <sup>nd</sup> month                           | \$            |                 |          |          |          |          |          |      |     |      |    |                                     |    |      |    |      |    |  |    |      |     |      |     |                           |    |      |       |      |       |  |    |      |     |      |     |  |    |      |       |      |       |   |    |      |     |      |    |  |    |      |     |      |     |  |    |      |     |      |     |  |    |      |       |      |     |  |    |      |       |      |       |  |    |      |     |      |     |                  |    |      |     |      |     |  |    |      |     |      |     |                          |    |      |     |      |    |                         |    |      |     |      |    |                                  |    |      |       |      |     |                                    |    |      |       |      |     |                           |    |      |     |      |     |                  |    |      |     |      |     |                 |    |      |     |      |     |                               |    |      |    |      |    |                                     |    |      |     |      |     |                   |        |      |    |      |    |  |    |      |     |      |     |   |    |                     |  |  |  |  |    |                     |  |  |  |  |               |
| 1253  | 950  | 2253          | 475      | Extension for reply within 3 <sup>rd</sup> month                           | \$            |                 |          |          |          |          |          |      |     |      |    |                                     |    |      |    |      |    |  |    |      |     |      |     |                           |    |      |       |      |       |  |    |      |     |      |     |  |    |      |       |      |       |   |    |      |     |      |    |  |    |      |     |      |     |  |    |      |     |      |     |  |    |      |       |      |     |  |    |      |       |      |       |  |    |      |     |      |     |                  |    |      |     |      |     |  |    |      |     |      |     |                          |    |      |     |      |    |                         |    |      |     |      |    |                                  |    |      |       |      |     |                                    |    |      |       |      |     |                           |    |      |     |      |     |                  |    |      |     |      |     |                 |    |      |     |      |     |                               |    |      |    |      |    |                                     |    |      |     |      |     |                   |        |      |    |      |    |  |    |      |     |      |     |   |    |                     |  |  |  |  |    |                     |  |  |  |  |               |
| 1254  | 1,480  | 2254          | 740      | Extension for reply within 4 <sup>th</sup> month                           | \$            |                 |          |          |          |          |          |      |     |      |    |                                     |    |      |    |      |    |  |    |      |     |      |     |                           |    |      |       |      |       |  |    |      |     |      |     |  |    |      |       |      |       |   |    |      |     |      |    |  |    |      |     |      |     |  |    |      |     |      |     |  |    |      |       |      |     |  |    |      |       |      |       |  |    |      |     |      |     |                  |    |      |     |      |     |  |    |      |     |      |     |                          |    |      |     |      |    |                         |    |      |     |      |    |                                  |    |      |       |      |     |                                    |    |      |       |      |     |                           |    |      |     |      |     |                  |    |      |     |      |     |                 |    |      |     |      |     |                               |    |      |    |      |    |                                     |    |      |     |      |     |                   |        |      |    |      |    |  |    |      |     |      |     |   |    |                     |  |  |  |  |    |                     |  |  |  |  |               |
| 1255  | 2,010  | 2255          | 1,005    | Extension for reply within 5 <sup>th</sup> month                           | \$            |                 |          |          |          |          |          |      |     |      |    |                                     |    |      |    |      |    |  |    |      |     |      |     |                           |    |      |       |      |       |  |    |      |     |      |     |  |    |      |       |      |       |   |    |      |     |      |    |  |    |      |     |      |     |  |    |      |     |      |     |  |    |      |       |      |     |  |    |      |       |      |       |  |    |      |     |      |     |                  |    |      |     |      |     |  |    |      |     |      |     |                          |    |      |     |      |    |                         |    |      |     |      |    |                                  |    |      |       |      |     |                                    |    |      |       |      |     |                           |    |      |     |      |     |                  |    |      |     |      |     |                 |    |      |     |      |     |                               |    |      |    |      |    |                                     |    |      |     |      |     |                   |        |      |    |      |    |  |    |      |     |      |     |   |    |                     |  |  |  |  |    |                     |  |  |  |  |               |
| 1401  | 330  | 2401          | 165      | Notice of Appeal   | \$            |                 |          |          |          |          |          |      |     |      |    |                                     |    |      |    |      |    |  |    |      |     |      |     |                           |    |      |       |      |       |  |    |      |     |      |     |  |    |      |       |      |       |   |    |      |     |      |    |  |    |      |     |      |     |  |    |      |     |      |     |  |    |      |       |      |     |  |    |      |       |      |       |  |    |      |     |      |     |                  |    |      |     |      |     |  |    |      |     |      |     |                          |    |      |     |      |    |                         |    |      |     |      |    |                                  |    |      |       |      |     |                                    |    |      |       |      |     |                           |    |      |     |      |     |                  |    |      |     |      |     |                 |    |      |     |      |     |                               |    |      |    |      |    |                                     |    |      |     |      |     |                   |        |      |    |      |    |  |    |      |     |      |     |   |    |                     |  |  |  |  |    |                     |  |  |  |  |               |
| 1402  | 330  | 2402          | 165      | Filing a brief in support of an appeal                                     | \$            |                 |          |          |          |          |          |      |     |      |    |                                     |    |      |    |      |    |  |    |      |     |      |     |                           |    |      |       |      |       |  |    |      |     |      |     |  |    |      |       |      |       |   |    |      |     |      |    |  |    |      |     |      |     |  |    |      |     |      |     |  |    |      |       |      |     |  |    |      |       |      |       |  |    |      |     |      |     |                  |    |      |     |      |     |  |    |      |     |      |     |                          |    |      |     |      |    |                         |    |      |     |      |    |                                  |    |      |       |      |     |                                    |    |      |       |      |     |                           |    |      |     |      |     |                  |    |      |     |      |     |                 |    |      |     |      |     |                               |    |      |    |      |    |                                     |    |      |     |      |     |                   |        |      |    |      |    |  |    |      |     |      |     |   |    |                     |  |  |  |  |    |                     |  |  |  |  |               |
| 1403  | 290  | 2403          | 145      | Request for oral hearing   | \$            |                 |          |          |          |          |          |      |     |      |    |                                     |    |      |    |      |    |  |    |      |     |      |     |                           |    |      |       |      |       |  |    |      |     |      |     |  |    |      |       |      |       |   |    |      |     |      |    |  |    |      |     |      |     |  |    |      |     |      |     |  |    |      |       |      |     |  |    |      |       |      |       |  |    |      |     |      |     |                  |    |      |     |      |     |  |    |      |     |      |     |                          |    |      |     |      |    |                         |    |      |     |      |    |                                  |    |      |       |      |     |                                    |    |      |       |      |     |                           |    |      |     |      |     |                  |    |      |     |      |     |                 |    |      |     |      |     |                               |    |      |    |      |    |                                     |    |      |     |      |     |                   |        |      |    |      |    |  |    |      |     |      |     |   |    |                     |  |  |  |  |    |                     |  |  |  |  |               |
| 1814  | 110  | 2814          | 55       | Terminal Disclaimer Fee  | \$            |                 |          |          |          |          |          |      |     |      |    |                                     |    |      |    |      |    |  |    |      |     |      |     |                           |    |      |       |      |       |  |    |      |     |      |     |  |    |      |       |      |       |   |    |      |     |      |    |  |    |      |     |      |     |  |    |      |     |      |     |  |    |      |       |      |     |  |    |      |       |      |       |  |    |      |     |      |     |                  |    |      |     |      |     |  |    |      |     |      |     |                          |    |      |     |      |    |                         |    |      |     |      |    |                                  |    |      |       |      |     |                                    |    |      |       |      |     |                           |    |      |     |      |     |                  |    |      |     |      |     |                 |    |      |     |      |     |                               |    |      |    |      |    |                                     |    |      |     |      |     |                   |        |      |    |      |    |  |    |      |     |      |     |   |    |                     |  |  |  |  |    |                     |  |  |  |  |               |
| 1452  | 110  | 2452          | 55       | Petition to revive – unavoidable   | \$            |                 |          |          |          |          |          |      |     |      |    |                                     |    |      |    |      |    |  |    |      |     |      |     |                           |    |      |       |      |       |  |    |      |     |      |     |  |    |      |       |      |       |   |    |      |     |      |    |  |    |      |     |      |     |  |    |      |     |      |     |  |    |      |       |      |     |  |    |      |       |      |       |  |    |      |     |      |     |                  |    |      |     |      |     |  |    |      |     |      |     |                          |    |      |     |      |    |                         |    |      |     |      |    |                                  |    |      |       |      |     |                                    |    |      |       |      |     |                           |    |      |     |      |     |                  |    |      |     |      |     |                 |    |      |     |      |     |                               |    |      |    |      |    |                                     |    |      |     |      |     |                   |        |      |    |      |    |  |    |      |     |      |     |   |    |                     |  |  |  |  |    |                     |  |  |  |  |               |
| 1453  | 1,330  | 2453          | 665      | Petition to revive – unintentional   | \$            |                 |          |          |          |          |          |      |     |      |    |                                     |    |      |    |      |    |  |    |      |     |      |     |                           |    |      |       |      |       |  |    |      |     |      |     |  |    |      |       |      |       |   |    |      |     |      |    |  |    |      |     |      |     |  |    |      |     |      |     |  |    |      |       |      |     |  |    |      |       |      |       |  |    |      |     |      |     |                  |    |      |     |      |     |  |    |      |     |      |     |                          |    |      |     |      |    |                         |    |      |     |      |    |                                  |    |      |       |      |     |                                    |    |      |       |      |     |                           |    |      |     |      |     |                  |    |      |     |      |     |                 |    |      |     |      |     |                               |    |      |    |      |    |                                     |    |      |     |      |     |                   |        |      |    |      |    |  |    |      |     |      |     |   |    |                     |  |  |  |  |    |                     |  |  |  |  |               |
| 1501  | 1,330  | 2501          | 665      | Utility/Reissue issue fee  | \$            |                 |          |          |          |          |          |      |     |      |    |                                     |    |      |    |      |    |  |    |      |     |      |     |                           |    |      |       |      |       |  |    |      |     |      |     |  |    |      |       |      |       |   |    |      |     |      |    |  |    |      |     |      |     |  |    |      |     |      |     |  |    |      |       |      |     |  |    |      |       |      |       |  |    |      |     |      |     |                  |    |      |     |      |     |  |    |      |     |      |     |                          |    |      |     |      |    |                         |    |      |     |      |    |                                  |    |      |       |      |     |                                    |    |      |       |      |     |                           |    |      |     |      |     |                  |    |      |     |      |     |                 |    |      |     |      |     |                               |    |      |    |      |    |                                     |    |      |     |      |     |                   |        |      |    |      |    |  |    |      |     |      |     |   |    |                     |  |  |  |  |    |                     |  |  |  |  |               |
| 1502  | 480  | 2502          | 240      | Design issue fee   | \$            |                 |          |          |          |          |          |      |     |      |    |                                     |    |      |    |      |    |  |    |      |     |      |     |                           |    |      |       |      |       |  |    |      |     |      |     |  |    |      |       |      |       |   |    |      |     |      |    |  |    |      |     |      |     |  |    |      |     |      |     |  |    |      |       |      |     |  |    |      |       |      |       |  |    |      |     |      |     |                  |    |      |     |      |     |  |    |      |     |      |     |                          |    |      |     |      |    |                         |    |      |     |      |    |                                  |    |      |       |      |     |                                    |    |      |       |      |     |                           |    |      |     |      |     |                  |    |      |     |      |     |                 |    |      |     |      |     |                               |    |      |    |      |    |                                     |    |      |     |      |     |                   |        |      |    |      |    |  |    |      |     |      |     |   |    |                     |  |  |  |  |    |                     |  |  |  |  |               |
| 1503  | 640  | 2503          | 320      | Plant issue fee  | \$            |                 |          |          |          |          |          |      |     |      |    |                                     |    |      |    |      |    |  |    |      |     |      |     |                           |    |      |       |      |       |  |    |      |     |      |     |  |    |      |       |      |       |   |    |      |     |      |    |  |    |      |     |      |     |  |    |      |     |      |     |  |    |      |       |      |     |  |    |      |       |      |       |  |    |      |     |      |     |                  |    |      |     |      |     |  |    |      |     |      |     |                          |    |      |     |      |    |                         |    |      |     |      |    |                                  |    |      |       |      |     |                                    |    |      |       |      |     |                           |    |      |     |      |     |                  |    |      |     |      |     |                 |    |      |     |      |     |                               |    |      |    |      |    |                                     |    |      |     |      |     |                   |        |      |    |      |    |  |    |      |     |      |     |   |    |                     |  |  |  |  |    |                     |  |  |  |  |               |
| 1460  | 130  | 1460          | 130      | Petitions to the Commissioner  | \$            |                 |          |          |          |          |          |      |     |      |    |                                     |    |      |    |      |    |  |    |      |     |      |     |                           |    |      |       |      |       |  |    |      |     |      |     |  |    |      |       |      |       |   |    |      |     |      |    |  |    |      |     |      |     |  |    |      |     |      |     |  |    |      |       |      |     |  |    |      |       |      |       |  |    |      |     |      |     |                  |    |      |     |      |     |  |    |      |     |      |     |                          |    |      |     |      |    |                         |    |      |     |      |    |                                  |    |      |       |      |     |                                    |    |      |       |      |     |                           |    |      |     |      |     |                  |    |      |     |      |     |                 |    |      |     |      |     |                               |    |      |    |      |    |                                     |    |      |     |      |     |                   |        |      |    |      |    |  |    |      |     |      |     |   |    |                     |  |  |  |  |    |                     |  |  |  |  |               |
| 1807  | 50   | 1807          | 50       | Processing fee under 37 CFR 1.17(q)  | \$            |                 |          |          |          |          |          |      |     |      |    |                                     |    |      |    |      |    |  |    |      |     |      |     |                           |    |      |       |      |       |  |    |      |     |      |     |  |    |      |       |      |       |   |    |      |     |      |    |  |    |      |     |      |     |  |    |      |     |      |     |  |    |      |       |      |     |  |    |      |       |      |       |  |    |      |     |      |     |                  |    |      |     |      |     |  |    |      |     |      |     |                          |    |      |     |      |    |                         |    |      |     |      |    |                                  |    |      |       |      |     |                                    |    |      |       |      |     |                           |    |      |     |      |     |                  |    |      |     |      |     |                 |    |      |     |      |     |                               |    |      |    |      |    |                                     |    |      |     |      |     |                   |        |      |    |      |    |  |    |      |     |      |     |   |    |                     |  |  |  |  |    |                     |  |  |  |  |               |
| 1806  | 180  | 1806          | 180      | Submission of IDS  | \$ 180        |                 |          |          |          |          |          |      |     |      |    |                                     |    |      |    |      |    |  |    |      |     |      |     |                           |    |      |       |      |       |  |    |      |     |      |     |  |    |      |       |      |       |   |    |      |     |      |    |  |    |      |     |      |     |  |    |      |     |      |     |  |    |      |       |      |     |  |    |      |       |      |       |  |    |      |     |      |     |                  |    |      |     |      |     |  |    |      |     |      |     |                          |    |      |     |      |    |                         |    |      |     |      |    |                                  |    |      |       |      |     |                                    |    |      |       |      |     |                           |    |      |     |      |     |                  |    |      |     |      |     |                 |    |      |     |      |     |                               |    |      |    |      |    |                                     |    |      |     |      |     |                   |        |      |    |      |    |  |    |      |     |      |     |   |    |                     |  |  |  |  |    |                     |  |  |  |  |               |
| 8021  | 40   | 8021          | 40       | Recording each patent assignment per property (times number of properties) | \$            |                 |          |          |          |          |          |      |     |      |    |                                     |    |      |    |      |    |  |    |      |     |      |     |                           |    |      |       |      |       |  |    |      |     |      |     |  |    |      |       |      |       |   |    |      |     |      |    |  |    |      |     |      |     |  |    |      |     |      |     |  |    |      |       |      |     |  |    |      |       |      |       |  |    |      |     |      |     |                  |    |      |     |      |     |  |    |      |     |      |     |                          |    |      |     |      |    |                         |    |      |     |      |    |                                  |    |      |       |      |     |                                    |    |      |       |      |     |                           |    |      |     |      |     |                  |    |      |     |      |     |                 |    |      |     |      |     |                               |    |      |    |      |    |                                     |    |      |     |      |     |                   |        |      |    |      |    |  |    |      |     |      |     |   |    |                     |  |  |  |  |    |                     |  |  |  |  |               |
| 1801  | 770  | 2801          | 385      | Request for Continued Examination (RCE)                                    | \$            |                 |          |          |          |          |          |      |     |      |    |                                     |    |      |    |      |    |  |    |      |     |      |     |                           |    |      |       |      |       |  |    |      |     |      |     |  |    |      |       |      |       |   |    |      |     |      |    |  |    |      |     |      |     |  |    |      |     |      |     |  |    |      |       |      |     |  |    |      |       |      |       |  |    |      |     |      |     |                  |    |      |     |      |     |  |    |      |     |      |     |                          |    |      |     |      |    |                         |    |      |     |      |    |                                  |    |      |       |      |     |                                    |    |      |       |      |     |                           |    |      |     |      |     |                  |    |      |     |      |     |                 |    |      |     |      |     |                               |    |      |    |      |    |                                     |    |      |     |      |     |                   |        |      |    |      |    |  |    |      |     |      |     |   |    |                     |  |  |  |  |    |                     |  |  |  |  |               |
| Other fee (specify)   |  |               |          |  | \$            |                 |          |          |          |          |          |      |     |      |    |                                     |    |      |    |      |    |  |    |      |     |      |     |                           |    |      |       |      |       |  |    |      |     |      |     |  |    |      |       |      |       |   |    |      |     |      |    |  |    |      |     |      |     |  |    |      |     |      |     |  |    |      |       |      |     |  |    |      |       |      |       |  |    |      |     |      |     |                  |    |      |     |      |     |  |    |      |     |      |     |                          |    |      |     |      |    |                         |    |      |     |      |    |                                  |    |      |       |      |     |                                    |    |      |       |      |     |                           |    |      |     |      |     |                  |    |      |     |      |     |                 |    |      |     |      |     |                               |    |      |    |      |    |                                     |    |      |     |      |     |                   |        |      |    |      |    |  |    |      |     |      |     |   |    |                     |  |  |  |  |    |                     |  |  |  |  |               |
| <b>Subtotal (3)</b>   |  |               |          |  | <b>\$ 180</b> |                 |          |          |          |          |          |      |     |      |    |                                     |    |      |    |      |    |  |    |      |     |      |     |                           |    |      |       |      |       |  |    |      |     |      |     |  |    |      |       |      |       |   |    |      |     |      |    |  |    |      |     |      |     |  |    |      |     |      |     |  |    |      |       |      |     |  |    |      |       |      |       |  |    |      |     |      |     |                  |    |      |     |      |     |  |    |      |     |      |     |                          |    |      |     |      |    |                         |    |      |     |      |    |                                  |    |      |       |      |     |                                    |    |      |       |      |     |                           |    |      |     |      |     |                  |    |      |     |      |     |                 |    |      |     |      |     |                               |    |      |    |      |    |                                     |    |      |     |      |     |                   |        |      |    |      |    |  |    |      |     |      |     |   |    |                     |  |  |  |  |    |                     |  |  |  |  |               |
| <b>Total Amount of Payment:</b>   |  | <b>\$ 180</b> |          |  |               |                 |          |          |          |          |          |      |     |      |    |                                     |    |      |    |      |    |  |    |      |     |      |     |                           |    |      |       |      |       |  |    |      |     |      |     |  |    |      |       |      |       |   |    |      |     |      |    |  |    |      |     |      |     |  |    |      |     |      |     |  |    |      |       |      |     |  |    |      |       |      |       |  |    |      |     |      |     |                  |    |      |     |      |     |  |    |      |     |      |     |                          |    |      |     |      |    |                         |    |      |     |      |    |                                  |    |      |       |      |     |                                    |    |      |       |      |     |                           |    |      |     |      |     |                  |    |      |     |      |     |                 |    |      |     |      |     |                               |    |      |    |      |    |                                     |    |      |     |      |     |                   |        |      |    |      |    |  |    |      |     |      |     |   |    |                     |  |  |  |  |    |                     |  |  |  |  |               |

| 1. BASIC FILING FEE |          |              |          |   |  |
|---------------------|----------|--------------|----------|---|--|
| Large Entity        |          | Small Entity |          |   |  |
| Fee Code            | Fee (\$) | Fee Code     | Fee (\$) | Fee Description                                 |  |
| 1001                | 770      | 2001         | 385      | <input type="checkbox"/> Utility Filing Fee     |  |
| 1002                | 340      | 2002         | 170      | <input type="checkbox"/> Design Filing Fee      |  |
| 1003                | 530      | 2003         | 265      | <input type="checkbox"/> Plant Filing Fee       |  |
| 1004                | 770      | 2004         | 385      | <input type="checkbox"/> Reissue Filing Fee     |  |
| 1005                | 160      | 2005         | 80       | <input type="checkbox"/> Provisional Filing Fee |  |
| <b>Subtotal (1)</b> |          |              |          | <b>\$ 0</b>                                     |  |

| 2. EXTRA CLAIM FEES       |       |       |     |             |           |
|---------------------------|-------|-------|-----|-------------|-----------|
| Current Claims            | Prior | Extra | Fee | Fee Paid    |           |
| Total                     | -     | 20    | =   | x           | \$ = \$ 0 |
| Ind.                      | -     | 3     | =   | x           | \$ = \$ 0 |
| Multiple Dependent Claims |       |       | x   | \$ =        | \$        |
| <b>Subtotal (2)</b>       |       |       |     | <b>\$ 0</b> |           |

| Large Entity |          | Small Entity |          |   |  |
|--------------|----------|--------------|----------|---|--|
| Fee Code     | Fee (\$) | Fee Code     | Fee (\$) | Fee Description   |  |
| 1202         | 18       | 2202         | 9        | Claims in excess of 20                                  |  |
| 1201         | 86       | 2201         | 43       | Independent claims in excess of 3                       |  |
| 1203         | 290      | 2203         | 145      | Multiple dependent Claim                                |  |
| 1204         | 86       | 2204         | 43       | Reissue independent claims over original patent         |  |
| 1205         | 18       | 2205         | 9        | Reissue claims in excess of 20 and over original patent |  |

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